

## **CGIA**

- Office of State Budget Planning and Management
- CGIA Coordination Program
- CGIA Services Program
- Main Office/Field Office
- Staff and Partnerships

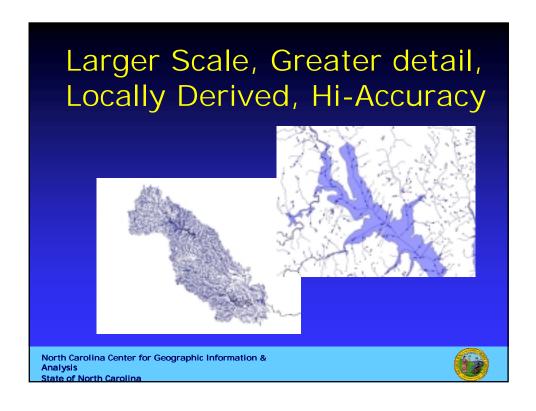
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## **Numerous partners**

- State Agencies
- Federal Agencies
- NDOP
- NED
- NHD
- Municipalities
- Counties
- Lead Regional Organizations







#### **Statewide Coordination**

- Coordinating Council
- Local and Federal Government Included
- Framework Data and Integration
- Database and Clearinghouse
- State Conference
- Partners with FGDC
- Active in NSGIC
- Implement NSDI Principles in Practice....USGS, EPA, DOT/FHWA . . . .





## Floodplain Mapping Program

- Strategy 1 Establishment of a <u>statewide</u> <u>program</u> to acquire, process and disseminate current, accurate, and detailed elevation data, flood studies, NSDI framework data, and maps.
- Strategy 2 Establishment of North Carolina as a <u>Cooperating Technical State</u> (CTS) with FEMA.

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#### **CTS Partners**

- National Aeronautics and Space Administration
- National Oceanic and Atmospheric Administration
- U.S. Army Corps of Engineers
- U.S. Department of Agriculture
- U.S. Geological Survey
- Environmental Protection Agency
- Economic Development Administration
- U.S. Department of Agriculture
- U.S. Department of Transportation.......



### **CTS Task Agreement**

- Project Scoping
- Information Architecture
- Digital Base Map Data
- Digital Elevation Data
- Updated Flood Hazard Data and Digital FIRM Preparation
- Digital FIRM Maintenance
- FIRM Dissemination
- FIRM Map Amendments

- Post-Disaster Flood Data Acquisition
- Real-Time Flood Forecasting and Inundation Mapping
- Data Archival / Security
- Data Standards
- Inter-Agency Coordination

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#### **FMP Deliverables**

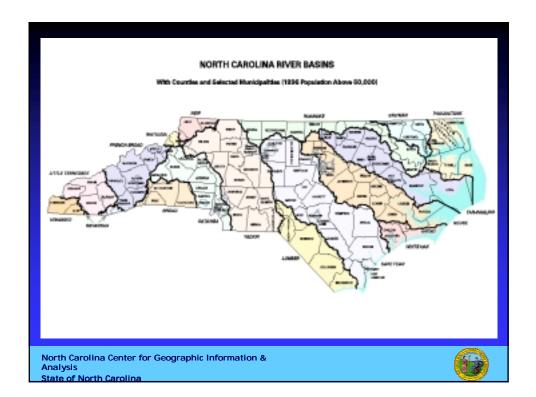
- <u>Up-to-date maps</u> (Flood Insurance Rate Maps) being provided to state and local officials (Study Basin by Basin)
- <u>Up-to-date elevation data</u> being provided to state and local officials (2 Feet or Better Vertical Accuracy /95% confidence)
- <u>Reduction of time</u> needed for reviewing and approving proposed changes to FIRM maps
- <u>Notification and dissemination of information</u> about new and revised maps being provided to local governments, insurance agents, and citizens



## **Deliverables (con't)**

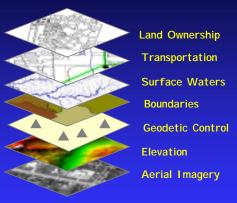
- On-going program for updating and maintaining FIRMs
- Post-event mitigation <u>activities being better equipped and supported</u> with timely updates to flood risk <u>maps</u>
- Interoperable GIS
- Dissemination of data and maps via the Internet
- Next generation information architecture
- E-gov
- Develop real time prediction of flooding





## **FMP Components and the NSDI**

- Preparation of best available digital base maps (STATEWIDE)
- GIS Data Survey
- Metadata
- Assessment / Scoping of Map Needs

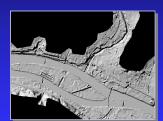


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# **FMP** and the **NSDI**

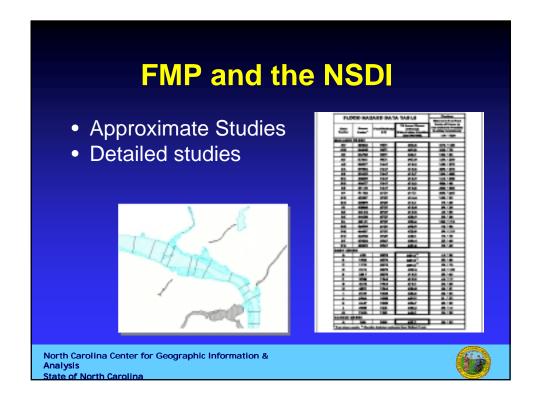
- Acquisition of elevation data (Wall to Wall)
- LIDAR to yield raw data, TIN, & 5m DEMs

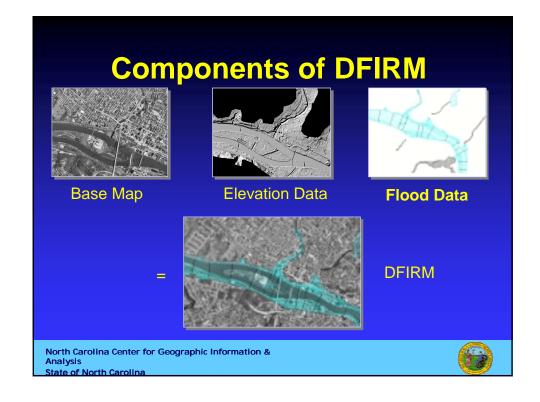


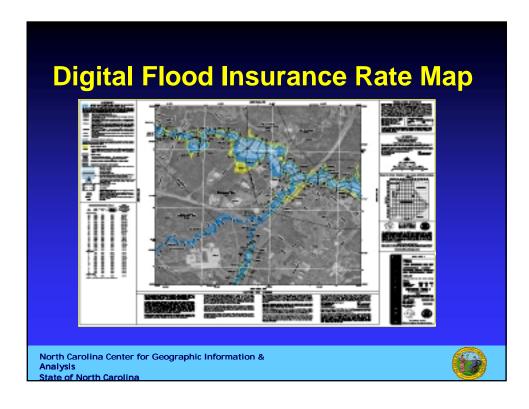


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## **FMP** and the **NSDI**

 Information Technology Architectural Design and Implementation





#### Floodplain Mapping Schedule

- Data collection for all river basins within 5 years (statewide)
- 6 river basins completed by August 2002 (Pasquotank, Tar-Pamlico, Neuse, Cape Fear, White Oak, Lumber)
- 3 river basins before September 2001
- Begin 5 additional river basins in August 2001
- Begin remaining 6 river basins in August 2002

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Floodplain Mapping Program includes the development and exposure of large scale locally derived data for a sharable statewide corporate geographic database as part of the national spatial data infrastructure



## **Original Estimated Costs**

Component	<b>Priority Basins</b>	Statewide
<b>Elevation and Base Data</b>	\$9,000,000	\$18,000,000
Flood Modeling and Maps	\$22,500,000	\$42,000,000
Project Management	\$1,700,000	\$1,700,000
Total	\$33,200,000	\$61,700,000

Start-up Costs **Recurring Costs**  \$ 700,000 \$1,100,000

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### FMP is a big part of our NSDI, We need . . . .

- Cost share partners (on any or all components of the program)
- Work share partners (standards, research)
- To broaden existing partnerships
- To avoid competing/redundant practices
- For the "big 4" "or 5-6" to focus on issues about relevancy, integration, of large scale high accuracy data
- To jointly develop effective NSDI state implementation team plans



Thank you and for further information:

Zsolt Nagy Center for Geographic Information and Analysis 919-733-2090

www.cgia.state.nc.us and NCMapNet.com

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